



NEVO600 SERIES



- Modular
- Configurable



600 watt in the palm of your hand

The NEVO 600 is a modular and user configurable power supply offering unrivalled performance and flexibility. Delivering up to 600 watts from a 600 gram 5" x 3" x 1U package, the NEVO is the ultimate power solution for applications where size and weight are vital factors. Each system consists of an input module together with up to eight isolated output modules. The series carry full UL60601 3rd edition safety approvals and comply with EN61000-3, EN61000-4 and EN55022-B EMC standards.



MAIN FEATURES:

- ✓ 600 watt output
- ✓ 5" x 3" x 1U footprint
- ✓ High power density (25W/in³)
- ✓ Medical approvals (3rd Ed)
- ✓ High reliability
- ✓ High efficiency – up to 89%
- ✓ Only 0.6kg – 100W/kg
- ✓ I²C control option
- ✓ Remote current/voltage programming
- ✓ Accurate current sharing
- ✓ Current output signal
- ✓ 5V 200mA bias supply
- ✓ RoHS compliant
- ✓ Field configurable
- ✓ Two year warranty

SYSTEM SPECIFICATIONS

INPUT ELECTRICAL					
Parameter	Details	Min	Typ	Max	Units
AC Input Voltage	Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz
DC Input Voltage	Medical	120		300	Vdc
Power Rating	See graphs for deratings			600	Watts
Input Current	600Watts output at 180Vrms input			4	Amps
Inrush Current	265Vrms (cold start)			20	Amps
Fusing	5x20 Fast acting			5	Amps
Input Current Limit	Maintains power factor		6		Amps
Efficiency	See graphs		86	89	%
Idle Power	All outputs fitted and enabled		28		Watts
Idle Power	All outputs fitted and Disabled		21		Watts
Power Factor	Typical value for 300Watts output at 240Vrms input		0.96	0.99	
Holdup	600Watts output at 180Vrms input	17	20	21	mS
UVLO	Turn on only	78		84	Vrms
Over temperature	Internally monitored. Latching	115		125	°C
Reliability	40°C 80% load			2	FPMH
Signals	Bias Voltage	4.8	5	5.2	V
	Bias current	0		200	mA
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	V
	Power Good current		0	20	mA
	Inhibit voltage		2	15	V
	Inhibit current	10k ohm input impedance	0.2	1.5	mA
	Global inhibit voltage		3	15	V
	Global inhibit current	5k ohm input impedance	0.6	3	mA
	AC_OK voltage		1	4	V
	AC_OK current		-10	20	mA
	AC_OK warning	See user manual for exceptions	5		mS

INSTALLATION			
Parameter	Details	Parameter	Details
Equipment class	I	Flammability rating	94V-2
Installation category	II	IP Rating	IP10
Pollution degree	2	ROHS Compliance	2002/95/EC
Material group	IIIb (indoor use only)		

RELIABILITY				
Component	Details	Min	Max	Units
FAN	Mag Lev Std		3.8	FPMH
INPUT	Excluding FAN		2	FPMH
OUTPUT	See individual output datasheets		1	FPMH
Warranty			2	Years

SAFETY				
Parameter	Details	Min	Max	Units
Isolation Voltage	Input to Output		4000	Vac
	Input to Chassis		1500	Vac
	Output to Chassis		250	Vdc
	Output to Output		250	Vdc
Isolation Clearance	Primary to Secondary (Reinforced)	7		mm
	Primary to Chassis (Basic)	2.5		mm
Isolation Creepage	Primary to Secondary (Reinforced)	12		mm
	Primary to Chassis (Basic)	4		mm
Leakage Current	Medical: 265Vac, 63Hz, 25°C		300	uA

MECHANICAL	
Parameter	Details
Size	77.7mm x 129.7mm x 41.0mm (all external dimensions ± 1.0mm)
Weight	360 gram +60 gram per output module
Mounting	Bottom or Side mounting (See diagram for details)



MEDICAL DATASHEET

NEVO600 SERIES



ENVIRONMENTAL

	Parameter	Details	Min	Max	Units
Storage	Temperature		-40	+85	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude		-200	5000	m
	Air Pressure		54	106	kPa
Operation	Temperature	Full power Derate input and outputs at 2.5%/°C	-20	50	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
	Air Pressure		78	106	kPa
	Noise Level	Measured 1m from fan intake		45	dBa
	Shock	3000 bumps at 10G (16ms) half sine wave			
	Vibration	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes random vibration			

AGENCY APPROVALS

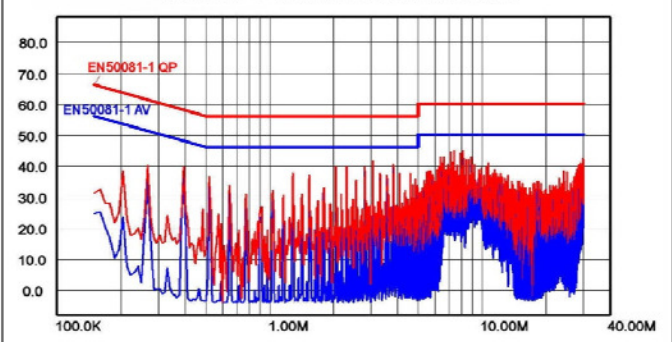
Standard	Details	Standard	Details
IEC/EN60601-1 ED3			
UL60601-1 ED3			
CSA-C22.2 No. 60601-1-08			
CE MARK	LVD 73/23/EEC	UL file number	UL: E316486

CB certificate and report available on request

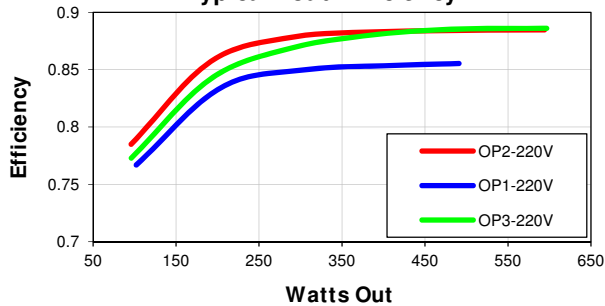
EMC

	Parameter	Standard	Level
Emissions	Radiated electric field	EN55011, EN55022, FCC	B
	Conducted emissions	EN55011, EN55022, FCC	B
	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast Transient burst	EN61000-4-4 (4kV)	4
	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
	Conducted RFI	EN61000-4-6 (10V)	4
	Power Freq. Magnetic Field	EN61000-4-8 (10A/m)	3
	Voltage Dips	EN61000-4-11 (EN55024)	Compliant

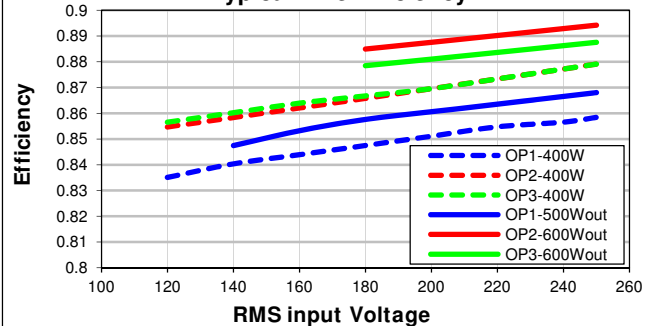
Typical Conducted Emissions



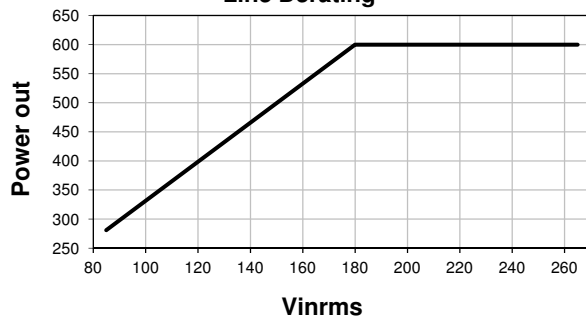
Typical Load Efficiency



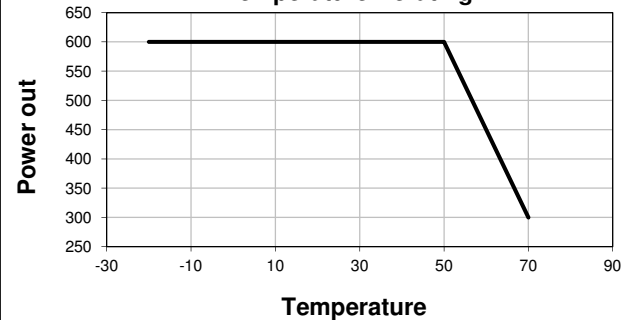
Typical Line Efficiency



Line Derating



Temperature Derating





UL[®] US
CE (D)

39.40 38.30 38.0

N E L

J1

N - Neutral
E - Earth
L - Live

Technical drawing of a door frame assembly. The drawing shows a cross-section of the frame with dimensions and components labeled. The overall height is 41.0 ± 1.0 . The top part of the frame has a height of 4.8 . The bottom part of the frame has a height of 17.1 . The drawing includes three circular symbols with a cross inside, representing fasteners or bolts. The drawing is labeled with '1' and '2' at the bottom.

Technical drawing of a cabinet with dimensions and labels. The drawing shows a side view of a cabinet with a door. Dimensions are indicated by blue lines and numbers: 19.5, 48.7, and 61.6. Labels MH4 and MH5 are placed below the cabinet. The drawing is a line drawing with a light blue background.

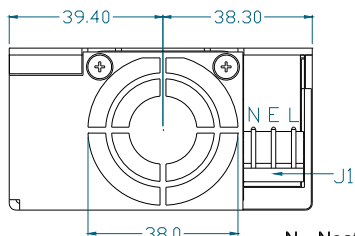
Technical drawing of the front view of the PCB. The overall dimensions are 129.7±1.0 mm in width and 7.4 mm in height. The drawing shows four slots labeled SLOT A, SLOT B, SLOT C, and SLOT D, each with a circular symbol and a crosshair. The distance between the centers of the slots is 18.3 mm. The distance from the top edge to the center of SLOT D is 7.7 mm. The distance from the bottom edge to the center of SLOT A is 7.4 mm. The drawing also shows a large rectangular area on the left side, likely for a display or keypad, and a small rectangular area at the bottom right, likely for a connector or component.



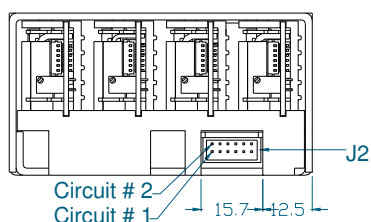
Airflow

CONNECTORS

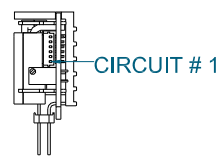
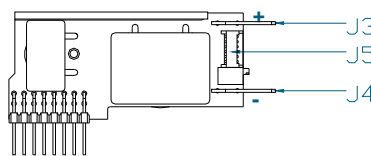
PINOUTS		
J1		
Circuit	Details	
1	Live	
2	Earth	
3	Neutral	
J2		
Circuit	Details	
1	Power Good	Slot A
2	Inhibit	
3	Power Good	Slot B
4	Inhibit	
5	Power Good	Slot C
6	Inhibit	
7	Power Good	Slot D
8	Inhibit	
9	Global Inhibit	
10	AC OK	
11	+5V 200mA Bias Supply	
12	COM	
J5		
Circuit	Details	
1	-Sense	
2	+Sense	
3	Voltage Control	
4	Current Control / Share / Out	
5	COM	
6	+5V local bias supply	



N - Neutral
E - Earth
L - Live



J3
Positive Output
J4
Negative Output

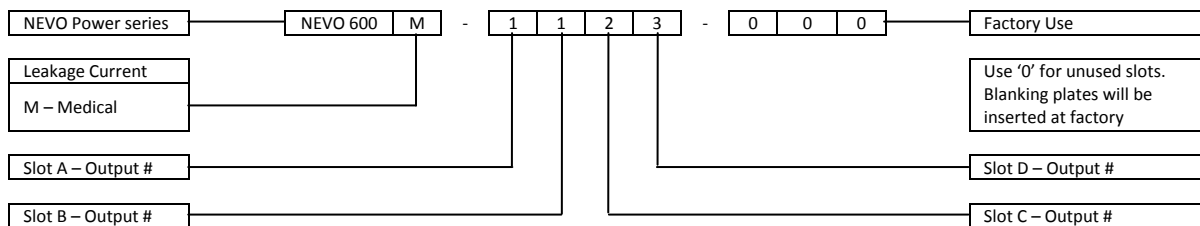


REF.	DETAILS	MANUFACTURER		TERMINAL
J1	MAINS INPUT: 3 Pin, 5.08mm, with Friction Lock, 18-24 AWG	MOLEX	010013036	8701031
J2	GLOBAL SIGNALS: 12 Pin, 2mm, with Friction Lock, 24-30 AWG	MOLEX	511101260	503948051
J3/4(1)	OUTPUT POWER TERMINAL: TAB SIZE 6.35mmx0.8mm	VARIOUS		VARIOUS
J5	OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	1510210600	50058800

Notes

1. Terminal and Wire current rating must exceed maximum short circuit output current. Eg. Output 1 = 25A*1.25 = 31.25Amps
2. Direct equivalents may be used for any connector parts
3. All cables must be rated 105°C min, equivalent to UL1015

PART NUMBERING SYSTEM



When initially ordering non-nominal voltage settings add “/Voltage” after each output # where a special voltage setting is required
E.g. If 3.30Vdc is required in slot B and all other slots require nominal voltages then use:

NEVO 600M - 1 - 1/3.30 - 2 - 3

The factory will then issue a 3 digit code for your specific configuration that can be used for all future orders of the same configuration
When ordering an input unit with no outputs inserted, simply order NEVO 600M

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NEVO+600 SERIES

- Modular
- Configurable
- Reduced fan noise
- Enhanced Line Derating



600 watt in the palm of your hand

The enhanced NEVO+ series features improved low input line derating delivers 600 watts without the need to derate for line voltages above 120Vac making the NEVO+ the ultimate power solution for products destined for the global market. Through the implementation of a fan control circuit the NEVO+ also features reduced fan noise. The NEVO+ delivers up to 600 watts from a 600 gram 5" x 3" x 1U package and consists of an input module together with up to eight isolated output modules. The series carry full UL60601 3rd ED safety approvals and comply with EN61000-3, EN61000-4 and EN55022-B EMC standards.



MAIN FEATURES:

- ✓ No Line derating above 120VAC
- ✓ Reduced fan noise
- ✓ 600 watt output
- ✓ 5" x 3" x 1U footprint
- ✓ High power density (25W/in³)
- ✓ UL 60601 3rd ED
- ✓ High reliability
- ✓ High efficiency – up to 89%
- ✓ Only 0.6kg – 100W/kg
- ✓ I²C control option
- ✓ Remote current/voltage programming
- ✓ Current output signal
- ✓ Accurate current sharing
- ✓ 5V 200mA bias supply
- ✓ RoHS compliant
- ✓ Field configurable
- ✓ Two year warranty

SYSTEM SPECIFICATIONS

INPUT ELECTRICAL					
Parameter	Details	Min	Typ	Max	Units
AC Input Voltage	Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz
DC Input Voltage	Medical	120		300	Vdc
Power Rating	See graphs for deratings			600	Watts
Input Current	600Watts output at 120Vrms input			6	Amps
Inrush Current	265Vrms (cold start)			20	Amps
Fusing	5x20 Fast acting			8	Amps
Input Current Limit	Maintains power factor		8		Amps
Efficiency	See graphs		86	89	%
Idle Power	All outputs fitted and enabled		28		Watts
Idle Power	All outputs fitted and Disabled		21		Watts
Power Factor	Typical value for 300Watts output at 240Vrms input		0.96	0.99	
Holdup	600Watts output at 120Vrms input	17	20	21	mS
UVLO	Turn on only	78		84	Vrms
Over temperature	Internally monitored. Latching	115		125	°C
Reliability	40°C 80% load			2	FPMH
Signals	Bias Voltage	4.8	5	5.2	V
	Bias current	0		200	mA
	Power Good voltage	8	10	15	V
	Power Good current	0		20	mA
	Inhibit voltage	2		15	V
	Inhibit current	0.2		1.5	mA
	Global inhibit voltage	3		15	V
	Global inhibit current	0.6		3	mA
	AC_OK voltage	1		4	V
	AC_OK current	-10		20	mA
	AC_OK warning	5			mS

INSTALLATION			
Parameter	Details	Parameter	Details
Equipment class	I	Flammability rating	94V-2
Installation category	II	IP Rating	IP10
Pollution degree	2	ROHS Compliance	2002/95/EC
Material group	IIb (indoor use only)		

RELIABILITY				
Component	Details	Min	Max	Units
FAN	Mag Lev Std		2.7	FPMH
INPUT	Excluding FAN		2	FPMH
OUTPUT	See individual output datasheets		1	FPMH
Warranty			2	Years

SAFETY				
Parameter	Details	Min	Max	Units
Isolation Voltage	Input to Output		4000	Vac
	Input to Chassis		1500	Vac
	Output to Chassis		250	Vdc
	Output to Output		250	Vdc
Isolation Clearance	Primary to Secondary (Reinforced)	7		mm
	Primary to Chassis (Basic)	2.5		mm
Isolation Creepage	Primary to Secondary (Reinforced)	12		mm
	Primary to Chassis (Basic)	4		mm
Leakage Current	Medical: 265Vac, 63Hz, 25°C		300	uA

MECHANICAL	
Parameter	Details
Size	77.7mm x 133.7mm x 41.0mm (all external dimensions ± 1.0mm)
Weight	360 gram +60 gram per output module
Mounting	Bottom or Side mounting (See diagram for details)



MEDICAL DATASHEET

NEVO+600 SERIES



ENVIRONMENTAL

	Parameter	Details	Min	Max	Units
Storage	Temperature		-40	+85	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude		-200	5000	m
	Air Pressure		54	106	kPa
Operation	Temperature	Full power Derate input and outputs at 2.5%/°C	-20	50	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
	Air Pressure		78	106	kPa
	Noise Level	Variable. Measured 1m from fan intake	35	60	dBA
	Shock	3000 bumps at 10G (16ms) half sine wave			
	Vibration	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes random vibration			

AGENCY APPROVALS

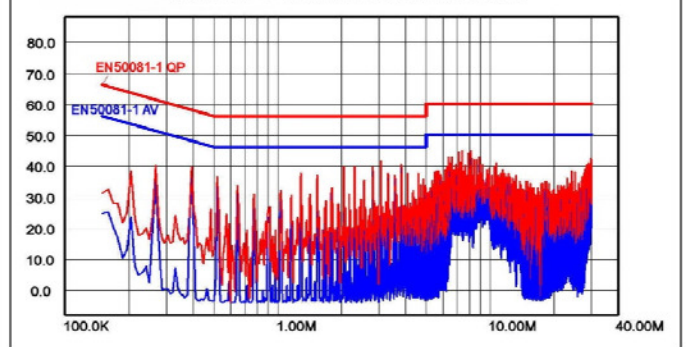
Standard	Details	Standard	Details
IEC/EN60601-1	3 rd ED		
UL60601-1			
CSA-C22.2 No. 60601-1-08			
CE MARK	LVD 73/23/EEC	UL file number	UL: E316486

CB certificate and report available on request

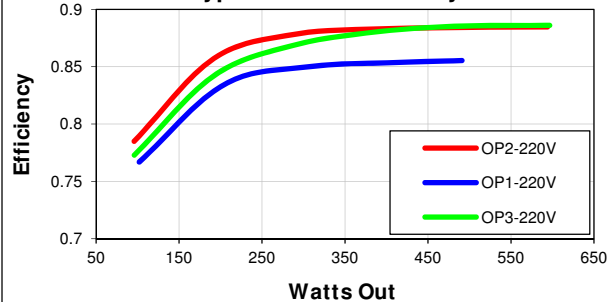
EMC

	Parameter	Standard	Level
Emissions	Radiated electric field	EN55011, EN55022, FCC	B
	Conducted emissions	EN55011, EN55022, FCC	B
	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast Transient burst	EN61000-4-4 (4kV)	4
	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
	Conducted RFI	EN61000-4-6 (10V)	4
	Power Freq. Magnetic Field	EN61000-4-8 (10A/m)	3
	Voltage Dips	EN61000-4-11 (EN55024)	Compliant

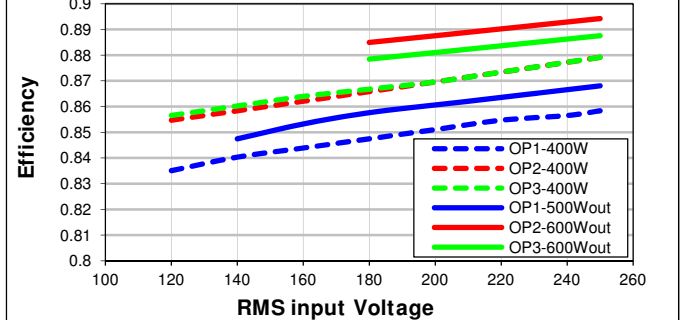
Typical Conducted Emissions



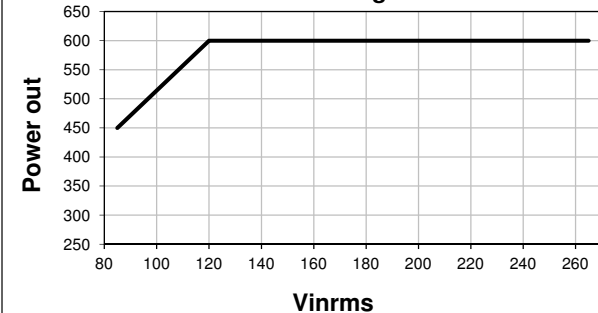
Typical Load Efficiency



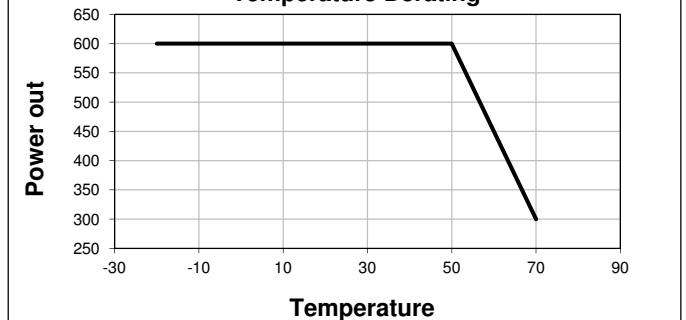
Typical Line Efficiency



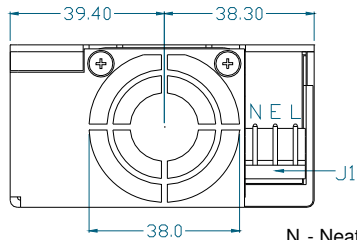
Line Derating



Temperature Derating

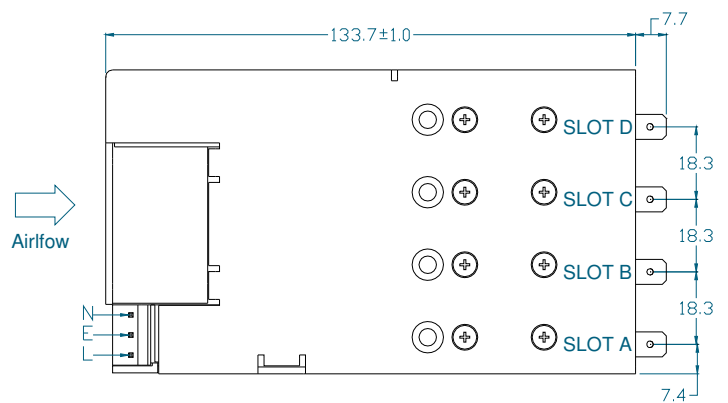
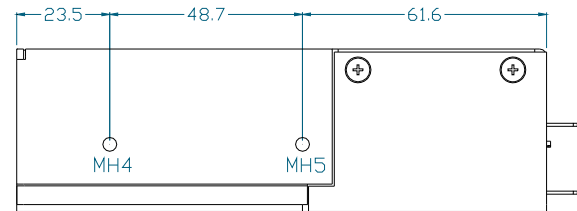
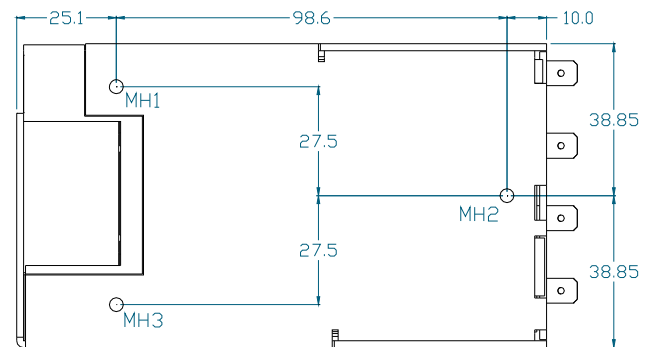
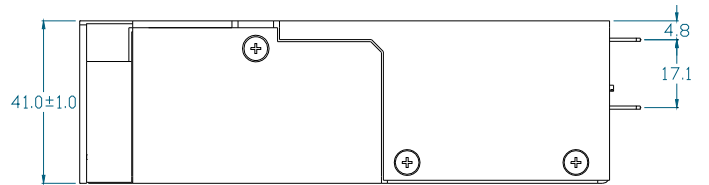


MECHANICAL DIMENSIONS AND MOUNTING SCREWS



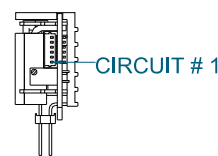
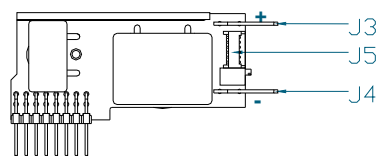
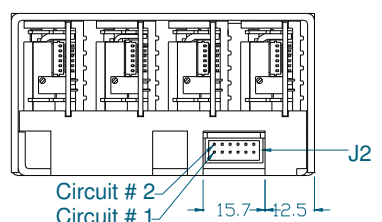
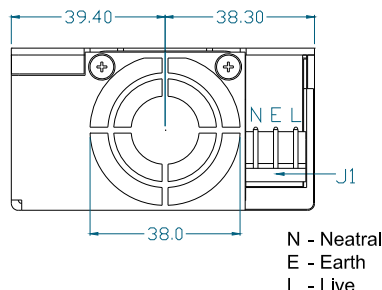
N - Neutral
E - Earth
L - Live

SCREWS	
MH1, MH2, MH3, MH4, MH5	
Screw type	M4
Tightening	Tighten to 1.5 Nm
Penetration depth	4.00mm max including chassis
OUTPUT MODULES x 8	
Screw type	M3x5, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.75 Nm
Penetration depth	Defined by screw
CHASSIS x 5	
Screw type	M3x5, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.75 Nm
Penetration depth	Defined by screw
FAN x 2	
Screw type	M3x30, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.75 Nm
Penetration depth	Defined by screw



CONNECTORS

PINOUTS		
J1		
Circuit	Details	
1	Live	
2	Earth	
3	Neutral	
J2		
Circuit	Details	
1	Power Good	Slot A
2	Inhibit	
3	Power Good	Slot B
4	Inhibit	
5	Power Good	Slot C
6	Inhibit	
7	Power Good	Slot D
8	Inhibit	
9	Global Inhibit	
10	AC OK	
11	+5V 200mA Bias Supply	
12	COM	
J5		
Circuit	Details	
1	-Sense	
2	+Sense	
3	Voltage Control	
4	Current Control / Share / Out	
5	COM	
6	+5V local bias supply	



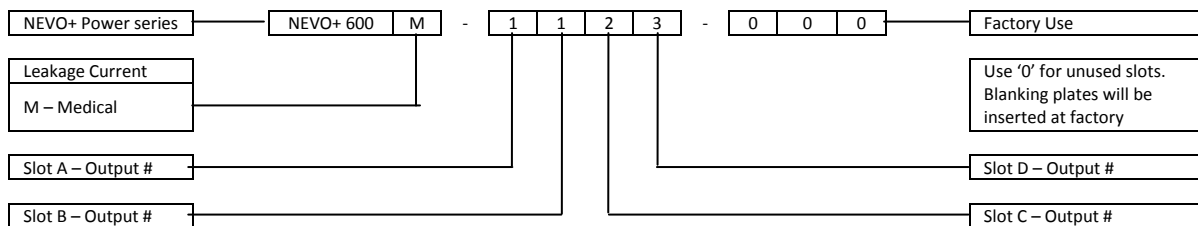
J3
Positive Output
J4
Negative Output

REF.	DETAILS	MANUFACTURER		TERMINAL
J1	MAINS INPUT: 3 Pin, 5.08mm, with Friction Lock, 18-24 AWG	MOLEX	010013036	8701031
J2	GLOBAL SIGNALS: 12 Pin, 2mm, with Friction Lock, 24-30 AWG	MOLEX	511101260	503948051
J3/4(1)	OUTPUT POWER TERMINAL: TAB SIZE 6.35mmx0.8mm	VARIOUS		VARIOUS
J5	OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	1510210600	50058800

Notes

1. Terminal and Wire current rating must exceed maximum short circuit output current. Eg. Output 1 = 25A*1.25 = 31.25Amps
2. Direct equivalents may be used for any connector parts
3. All cables must be rated 105°C min, equivalent to UL1015

PART NUMBERING SYSTEM



When initially ordering non-nominal voltage settings add “/Voltage” after each output # where a special voltage setting is required
E.g. If 3.30Vdc is required in slot B and all other slots require nominal voltages then use:

NEVO+ 600M – 1 – 1/3.30 – 2 – 3

The factory will then issue a 3 digit code for your specific configuration that can be used for all future orders of the same configuration
When ordering an input unit with no outputs inserted, simply order NEVO+ 600M

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Document DOC6008 rev 02



NEVO+1200M SERIES

- Medically Approved
- User Configurable
- 1200 Watts of Power



The NEVO+1200M series are medically approved modular and user configurable power supplies offering unrivalled performance and flexibility. Delivering up to 1200 watts from a 1.2kg 6" x 6" x 1U package, the NEVO is the ultimate medical power solution for applications where size and weight are vital factors. Each system consists of an input module with eight slots where any combination of outputs can be fitted to create a power solution with up to sixteen isolated outputs. The series carry full UL60601 3rd Edition safety approvals and comply with EN61000-3, EN61000-4 and EN550022-B EMC standards.

MAIN FEATURES:

- ✓ 1200 watt output at 120VAC
- ✓ 6" x 6" x 1U footprint
- ✓ High power density (21W/in³)
- ✓ EN60601 3rd Edition
- ✓ Primary Side Remote On/Off
- ✓ High efficiency – up to 89%
- ✓ Only 1.2kg – 100W/kg
- ✓ I²C control option
- ✓ Remote current/voltage programming
- ✓ Accurate current sharing
- ✓ Current output signal
- ✓ 2x 5V 1A bias supply
- ✓ RoHS compliant
- ✓ Field configurable
- ✓ Two year warranty



SYSTEM SPECIFICATIONS

INPUT ELECTRICAL						
Parameter		Details	Min	Typ	Max	Units
AC Input Voltage		Nominal range is 100V to 240V	85		264	Vrms
AC Input Frequency		Contact factory for 400Hz operation.	47	50/60	63	Hz
DC Input Voltage		Standard	120		370	Vdc
Power Rating		See graphs for de-rating			1200	Watts
Input Current		1200Watts output at 120Vrms input			12	Amps
Inrush Current		265Vrms (cold start)			40	Amps
Fusing		5x20 Fast acting			12.5	Amps
Input Current Limit				14		Amps
Efficiency		See graphs		86	89	%
Idle Power		All outputs fitted and enabled		46		Watts
Idle Power		All outputs fitted and Disabled		32		Watts
Standby Power		Latched off state, 120Vrms		2.5		Watts
Power Factor				0.99	0.99	
Holdup		1200Watts output at 120Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
Over temperature		Internally monitored. Latching	115		125	°C
Reliability		40°C 80% load			2	FPMH
Leakage Current		Normal condition, 264V, 63Hz		190		µAmps
S i g n a l s	Output Bias voltage	Two isolated Bias Outputs available	4.8	5	5.2	V
	Output Bias current	Hiccup type current limit	0		1	A
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
	Power Good current		0		20	mA
	Inhibit voltage		2		15	V
	Inhibit current	10k ohm input impedance	0.2		1.5	mA
	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
	AC_OK voltage	High output Low output	4.7 0		5.2 0.1	V V
	AC_OK current		-10		10	mA
	AC_OK warning	See user manual for exceptions	5			mS
	Primary Bias voltage	Medically Isolated	4.8	5	5.2	V
	Primary Bias current	Hiccup type current limit			0.5	A
	Primary Remote On/Off	Negative Edge Triggered, Refer to User Manual		5		V

INSTALLATION			
Parameter	Details	Parameter	Details
Equipment class	I	Flammability rating	94V-2
Installation category	II	IP Rating	IP10
Pollution degree	2	ROHS Compliance	2002/95/EC
Material group	IIIB		Indoor use only

RELIABILITY				
Component	Details	Min	Max	Units
FAN	Mag Lev Std (2 Fans per unit)		3.8	FPMH
INPUT	Excluding FAN		2	FPMH
OUTPUT	See individual output datasheets		1	FPMH
Warranty			2	Years

SAFETY				
Parameter	Details	Min	Max	Units
Isolation Voltage	Input to Output (2 MOPP)		4000	Vac
	Input to Chassis (1 MOPP)		1500	Vac
	Output to Chassis		250	Vdc
Isolation Clearance	Output to Output		250	Vdc
	Primary to Secondary (Reinforced)	7		mm
	Primary to Chassis (Basic)	2.5		mm
Isolation Creepage	Primary to Secondary (Reinforced)	12		mm
	Primary to Chassis (Basic)	4		mm
Leakage Current	265Vac, 63Hz, 25°C		300	uA

MECHANICAL	
Parameter	Details
Size	154.5mm (L) x 152.4 mm (W) x 41.0mm (see diagram for tolerance details)
Weight	720 gram +60 gram per output module
Mounting	Bottom (see diagram for details)

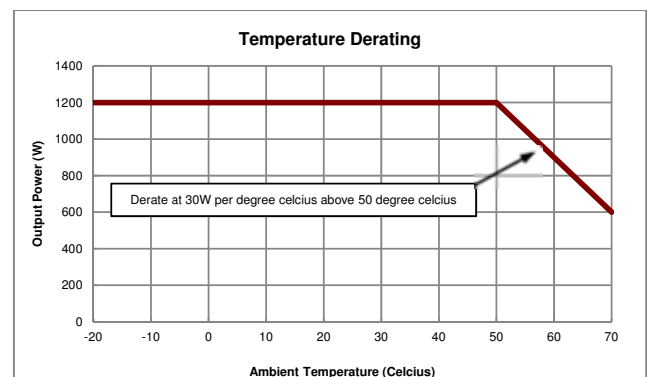
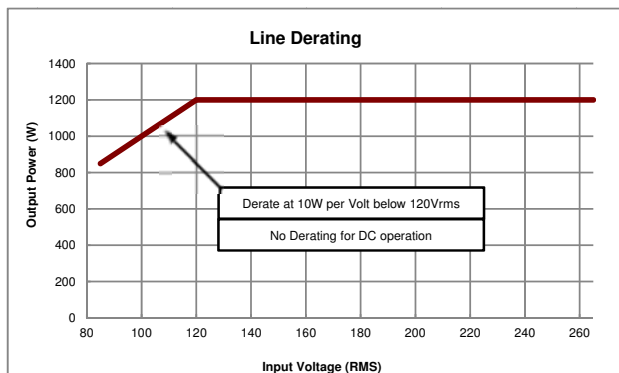
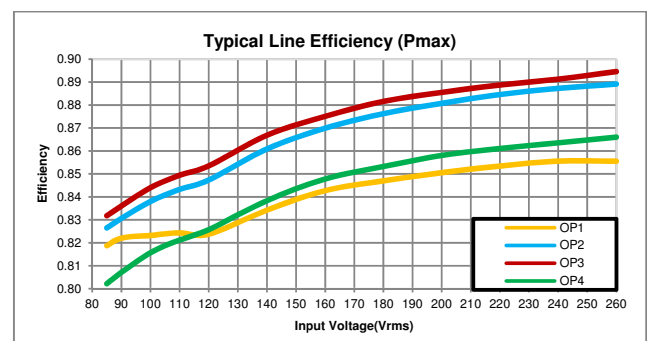
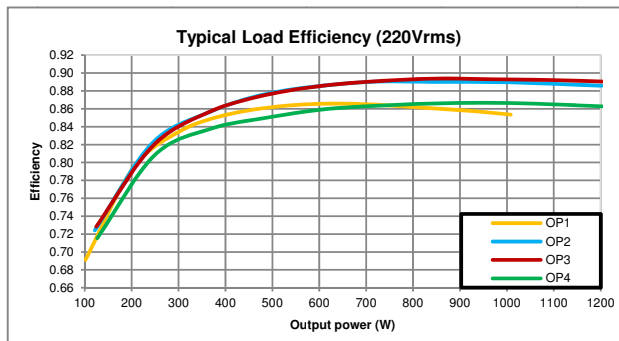
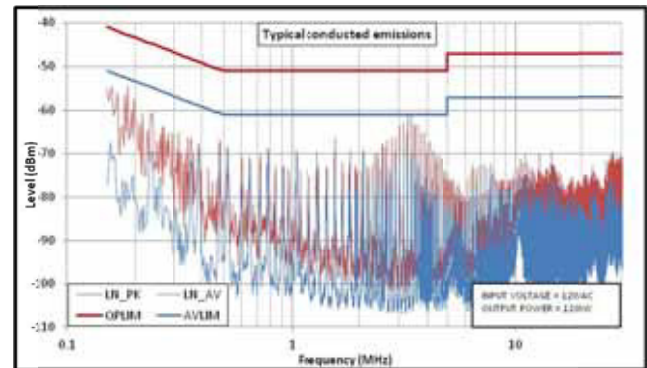


ENVIRONMENTAL					
Storage	Parameter	Details	Min	Max	Units
	Temperature		-40	+85	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude		-200	5000	m
Operation	Air Pressure		54	106	kPa
	Temperature	Full power	-20	50	°C
		De-rate input and outputs at 2.5%/°C	50	70	°C
	Humidity	Relative, non-condensing	5	95	%
	Altitude		-200	3000	m
	Air Pressure		78	106	kPa
	Noise Level	Unit at idle		42	dBA
		Unit at full power, 25°C		61	dBA
Shock	3000 bumps at 10G (16ms) half sine wave				
	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes random vibration				

AGENCY APPROVALS		
Standard	Details	File
IEC/EN60601-1	3 rd Edition	UL: E316486
UL60601-1	3 rd Edition	
CSA-C22.2 No. 60601-1-08		
CE MARK	LVD 73/23/EEC	
CB certificate and report available on request		

EMC			
Emissions	Parameter	Standard	Level
	Radiated electric field	EN55011, EN55022, FCC	A (See Note)
	Conducted emissions	EN55011, EN55022, FCC	B
	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast Transient burst	EN61000-4-4 (4kV)	4
	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
	Conducted RFI	EN61000-4-6 (10V)	4
	Power Freq. Magnetic Field	EN61000-4-8 (10A/m)	3
	Voltage Dips	EN61000-4-11 (EN55024)	Compliant

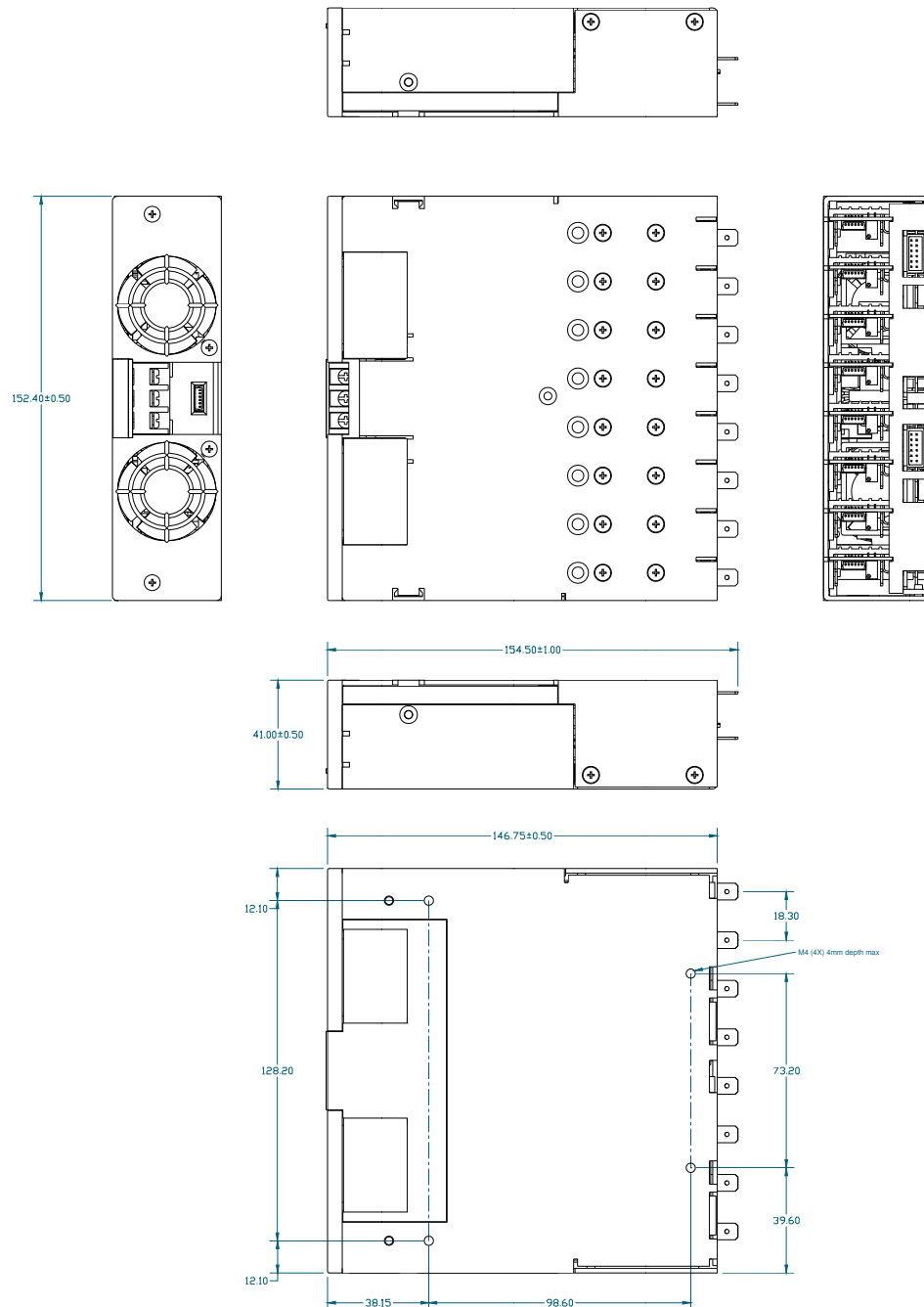
Note: To meet Class B radiated emissions the end user should add ferrites to I/P and O/P cables. Consult Vox Power for details.



MECHANICAL DIMENSIONS AND MOUNTING SCREWS

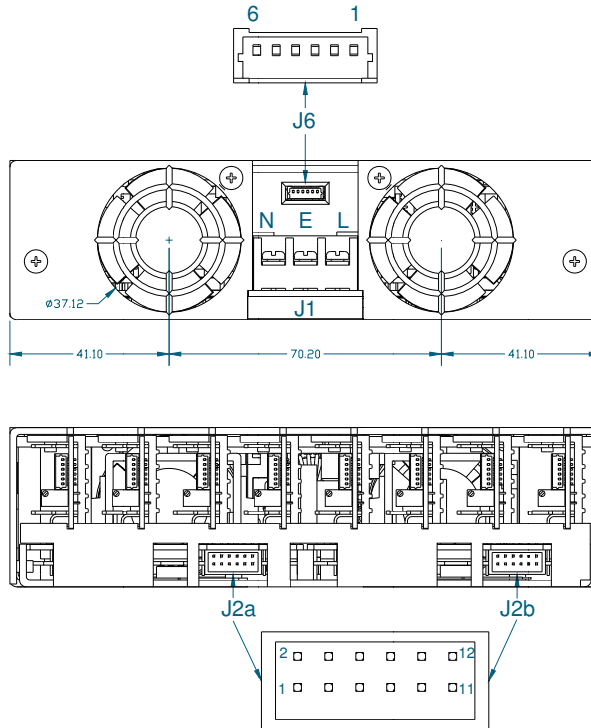
SCREWS

LOCATION	DETAILS	PENETRATION	TIGHTENING
MOUNTING	M4 x 4	4mm max, including chassis	0.75 NM
OUTPUT MODULES	M3 x 5, Countersink Posi, 16 Places	Defined by screw	0.75 NM
CHASSIS LID AND FACEPLATE	M3 x 5, Countersink Posi, 11 Places	Defined by screw	0.75 NM



CONNECTORS

PINOUTS		
J1		
Circuit	Details	
1	Live	
2	Earth	
3	Neutral	
J2a/b		
Circuit	Details	
1	Power Good	Slot A and E
2	Inhibit	
3	Power Good	Slot B and F
4	Inhibit	
5	Power Good	Slot C and G
6	Inhibit	
7	Power Good	Slot D and H
8	Inhibit	
9	Global Inhibit	
10	AC OK	
11	+5V 1A Bias Supply	
12	COM	
J6		
1	Common	
2	+5V 500mA Bias	
3	Shut Down	
4	Reserved	
5	Reserved	
6	Reserved	

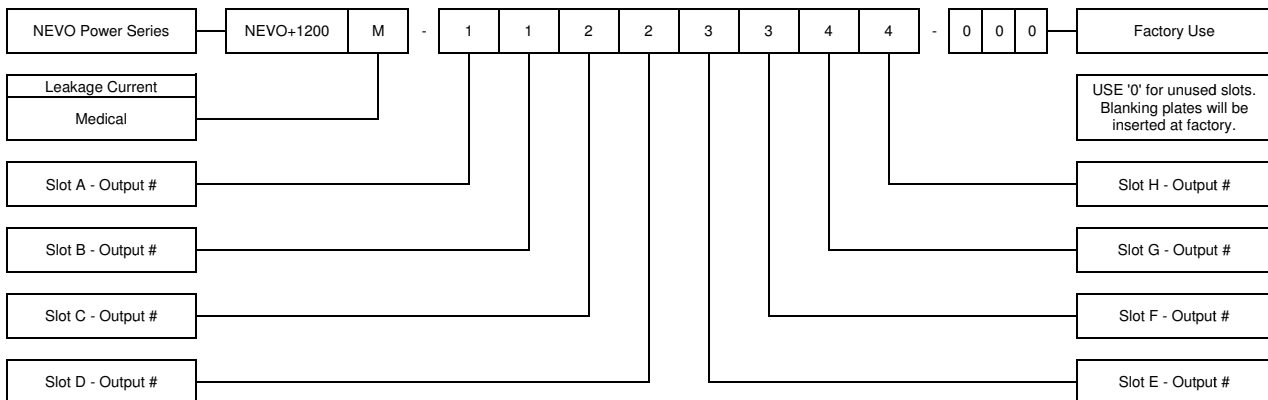


REF	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	MAINS INPUT: 3 Pin, Barrier, 6-32 Steel Screws, 0.8 NM or 7IN LB Torque Cable 14-18AWG, 300V, 16A, 105°C, use appropriately rated fork or ring terminal.	MOLEX		
J2a/b	GLOBAL SIGNALS: 12 Pin, 2mm, with Friction Lock, 24-30 AWG	MOLEX	511101260	503948051
J6	INPUT BIAS: OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	510210600	500588000

Notes

- Direct equivalents may be used for any connector parts.
- All cables must be rated 105°C min, equivalent to UL1015

PART NUMBERING SYSTEM



Contact your Distributor or Vox Power for special configuration requirements. The factory may allocate a 3 or 4 digit suffix to identify such requirement.